

CLAIMS

1. A microphone assembly for mounting in an electronic communication device, the microphone assembly comprising one or more sound inlet port(s), one or more
5 microphone(s) and one or more controlling means, said controlling means being an integrated part of the microphone assembly.

2. A microphone assembly according to claim 1, wherein the controlling means forms part of the one or more sound inlet port(s).
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3. A microphone assembly according to claim 1, wherein the one or more microphone(s) comprises a directional microphone having at least two sound inlet spouts each being connected to a sound inlet port.

- 15 4. A microphone assembly according to claim 1, wherein the one or more microphone(s) comprises an omni-directional microphone having at least one sound inlet spout connected to a sound inlet port.

5. A microphone assembly according to claim 3 and 4, wherein one of the at least two
20 inlet spouts of the directional microphone merges with the at least one inlet spout of the omni-directional microphone into a combined spout.

6. A microphone assembly according to claim 1, wherein each sound inlet port or each microphone comprises controlling means.
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7. A microphone assembly according to claim 5, wherein the sound inlet spouts of the one or more directional microphones and/or omni-directional microphones are combined with one or more spouts of external microphones outside the assembly.

- 30 8. A microphone assembly according to claim 1, wherein the controlling means is positioned so as to facilitate operation of the controlling means by applying a predetermined force to an integrated part of the microphone assembly.

9. A microphone assembly according to claim 8, wherein the operations of the electronic communication device comprises powering the electronic communication device down and/or activating the electronic communication device.

5 10. A microphone assembly according to claim 1, wherein the controlling means comprises one or more switch(es).

11. A microphone assembly according to claim 1, wherein the controlling means is any switch selected from the group consisting of a push button, a tragus responsive switch,
10 and a turning knob.

12. A microphone assembly according to claim 10, wherein at least one of the controlling means is adapted to switch between an on-state and an off-state of the microphone assembly.

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13. A microphone assembly according to claim 1, wherein at least one of the controlling means is a volume control.

14. A microphone assembly according to claim 1, wherein the controlling means is
20 adapted to provide at least one control signal.

15. A microphone assembly according to claim 14, wherein the at least one control signal is adapted to control operations of the electronic communication device.

25 16. A microphone assembly according to claim 14, wherein the at least one control signal is further adapted to control operations of the microphone assembly.

17. A microphone assembly according to claim 1, wherein the controlling means is adapted to control calibration of the one or more microphone(s).

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18. A microphone assembly according to claim 14, wherein the electronic communication device comprises a number of predetermined programs and wherein the one or more controlling means is adapted to provide a control signal to switch the electronic communication device between the number of predetermined programs.

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19. A microphone assembly according to claim 1, wherein the microphone assembly further comprises a connector comprising one or more connection means, the connector and the connection means form an integrated part of the microphone assembly.

5 20. A microphone assembly according to claim 19, wherein the electronic communication device comprises one or more processing means having a programming port, and wherein a number of connection means, in a first end, is connected to the programming port of the processing means and, in a second end, is adapted to form operative connection to an external programming system so that at least one communication
10 channel is formed between the programming port and the external programming system.

21. A microphone assembly according to claim 20, wherein the processing means is adapted to program the electronic communication device and/or the one or more microphone(s).

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22. A microphone assembly according to claim 20, wherein the processing means forms an integrated part of the microphone assembly or the one or more microphone(s).

23. A microphone assembly according to claim 20, and comprising processing means for
20 each of the microphones.

24. A microphone assembly according to claim 20, wherein the processing means comprises a Digital Signal Processor.

25 25. A microphone assembly according to claim 20, wherein the at least one communication channel is provided by means of a cable, by means of infra red radiation (IR), or by radio frequencies (RF).

26. A microphone assembly according to claim 20, wherein the at least one
30 communication channel comprises a channel for transmission of data signals between the processing means and the external programming system.

27. A microphone assembly according to claim 19, wherein at least one connection means is adapted to provide contact to a power source for the microphone assembly.

28. A microphone assembly according to claim 27, wherein the power source is a battery.

29. A microphone assembly according to claim 1, wherein a moisture filter forms part of the controlling means.

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30. A microphone assembly for mounting in an electronic communication device, the microphone assembly comprising a connector comprising one or more connection means, wherein the connector and the connection means form an integrated part of the microphone assembly.

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31. A microphone assembly according to claim 30, wherein at least two connection means of the connector is adapted to provide contact to a power source for the microphone assembly.

32. A microphone assembly according to claim 31, wherein the power source is a battery.

33. A microphone assembly according to claim 30, wherein the electronic device comprises one or more processing means having a programming port, and wherein a number of connection means, in a first end, is connected to the programming port of the

20 processing means and, in a second end, is adapted to form operative connection to an external programming system so that at least one communication channel is formed between the programming port and the external programming system.

34. A hearing aid, a mobile phone and/or a headset comprising a microphone assembly
25 according to claim 1.

35. A method for controlling an electronic communication device comprising a microphone assembly according to claim 20, wherein one or more of the controlling means is positioned in a frame of the electronic communication device so as to facilitate operation

30 of the controlling means by a user of the electronic communication device, the method comprising the steps of:

- applying a predetermined force to an integrated part of the microphone assembly,
- detecting a control signal in response to the applied force, and

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- operating the processing means of the electronic communication device according to the detected control signal, whereby the electronic communication device is operated according to the operation of the controlling means.